

Sub
F1

updating, by the call routing equipment, the stored base station's landline telephone number with the assigned landline telephone number when the assigned landline telephone number is not equal to the stored base station's landline telephone number.

15. The method of claim 14, a public switched telephone network (TELCO) intercoupling the base station and the call routing equipment and having caller identification, the method further comprising the steps of:

initiating, by the base station, a call to the call routing equipment; and

providing, by the TELCO via caller identification in response to the call to the call routing equipment, the assigned landline telephone number to the call routing equipment.

16. A method of initiating the transmission of caller identification information stored in a base station to a portable, wireless-communication device capable of communicating with the base station, a public switched telephone network (TELCO) having caller identification coupled with the base station, the method comprising the steps of:

providing, by the TELCO via caller identification, caller identification information derived from calls incoming to the base station;

storing, by the base station, the provided caller identification information in the base station;

recognizing, by the portable, wireless-communication device, that the portable, wireless-communication device is within a communication range of the base station;

automatically sending, by the portable, wireless-communication device, a caller identification recall message to the base station upon recognizing that the portable, wireless-communication device is within the communication range of the base station;

transmitting, by the base station in response to receiving the transmitted caller identification recall message, the stored caller identification information; and

receiving, by the portable, wireless-communication device, the transmitted caller identification information.

17. A method of initiating the transmission of caller identification information stored in a base station to a portable, wireless-communication device capable of communicating with the base station, a public switched telephone network (TELCO) having caller identification coupled with the base station, the method comprising the steps of:

B,
cont.

providing, by the TELCO via caller identification, caller identification information derived from calls incoming to the base station;

storing, by the base station, the provided caller identification information in the base station;

receiving, by the portable, wireless-communication device via the base station, a call to the portable, wireless-communication device and generating a ring signal in response;

automatically sending, by the portable, wireless-communication device, a caller identification recall message to the base station in response to generation of the ring signal; and

receiving, by the portable, wireless-communication device, the transmitted caller identification information.

18. A method of authorizing use of a cordless base station that is licensed for use in a predetermined area, the cordless base station having an assigned landline telephone number and being communicatively coupled with a call routing equipment via a public switched telephone network (TELCO) having caller identification, the method comprising the steps of:

initiating, by the cordless base station, a call to the call routing equipment;

providing, by the TELCO via caller identification in response to the call to the call routing equipment, the assigned landline telephone number to the call routing equipment;

receiving, by the call routing equipment, the assigned landline telephone number;

determining, by the call routing equipment according to the assigned landline telephone number, if the cordless base station is outside of its predetermined area; and

denying service to the cordless base station, by the call routing equipment, when the cordless base station is not in the predetermined area.

19. A method of informing a call routing equipment of a landline telephone number assigned to a base station in preparation for future call routing, the base station being communicatively coupled with the call routing equipment, the method, performed by the base station, comprising the steps of:

initiating a call to the call routing equipment;

receiving a connect message from the call routing equipment;

determining if the connect message requested the assigned landline telephone number be sent; and

sending the assigned landline telephone number to the call routing equipment when the connect message requested the assigned landline telephone number be sent.

20. The method of claim 19 further comprising the steps, performed by the base station, of:

determining if the assigned landline telephone number has been changed when the connect message did not request the assigned landline telephone number be sent; and

sending the assigned landline telephone number when the assigned landline telephone number has been changed.

21. The method of claim 20 further comprising the steps, performed by the call routing equipment, of:

receiving a call from the base station;

responding with a connect message to the base station;

receiving the assigned landline telephone number; and

storing the assigned landline telephone number.

22. Call routing equipment for use in a communication system including a base station having an assigned landline telephone number and a base identification number (BID), communicatively coupled with the call routing equipment, and capable of sending the assigned landline telephone number and BID to the call routing equipment, the call routing equipment capable of storing landline telephone numbers and BIDs in the call routing equipment, the call routing equipment comprising:

means for receiving the assigned landline telephone number and the BID;

means for finding the stored landline telephone number for the base station according to the received BID;

means for determining if the received assigned landline telephone number is equal to the stored landline telephone number for the base station; and

means for updating the stored landline telephone number for the base station with the received assigned landline telephone number when the

Sub
F2

received assigned landline telephone number is not equal to the stored landline telephone number of the base station.

23. A base station for informing a call routing equipment of a landline telephone number assigned to the base station, the station being communicatively coupled with the call routing equipment, the base station comprising:

means for initiating a call to the call routing equipment;

means for receiving a connect message from the call routing equipment;

means for determining if the connect message requested the assigned landline telephone number be sent; and

means for sending the assigned landline telephone number to the call routing equipment when the connect message requested the assigned landline telephone number be sent.

24. The base station of claim 23 further comprising:

means for determining if the assigned landline telephone number has been changed when the connect message did not request the assigned landline telephone number be sent; and

means for sending the assigned landline telephone number when the assigned landline telephone number has been changed.

25. A communication system for use with a public switched telephone network having caller identification that provides caller identification information derived from incoming calls, the communication system comprising:

a base station for storing provided caller identification information in the base station and for transmitting, in response to receiving a caller identification recall message, the stored caller identification information;

a device capable of wireless communication with the base station when the device is within a communication range of the base station, the device automatically sending the caller identification recall message to the base station upon the device recognizing that the device is within the communication range of the base station, and receiving the transmitted caller identification information.

26. A communication system for use with a public switched telephone network having caller identification that provides caller identification information derived from incoming calls, the communication system comprising:

a portable, wireless-communication device for receiving a call to the portable, wireless-communication device, generating a ring signal in response

B₁
cont.